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Digalog DS-400 Manual Addendum

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ADDENDUM

DS-400 Installation to Uniden Chassis using D2824 PLL Chip

Example: **President AR-144**

IMPORTANT

The Uniden Chassis requires the DIGALOG Mod Kit P.N. 2824X to attain maximum VCO frequency range. Installations made without this Mod Kit will yield fair results with average frequency ranges. Mod Kits are available from Digalog or your local dealer.

Range without 2824X . . . . . 26.750 – 27.750
Range with 2824X . . . . . 26.350 – 28.000

INSTALLATION #16

This section describes the 400 installation to Uniden chassis using the D2824 PLL Chip.

1. Remove the transceiver and 400 cases.
2. Remove R94 (10K) from the radio.
3. Remove D26 from the radio.
4. Remove L12 from the radio and replace with coil supplied in the Mod Kit.
5. Remove the VCO coil (L14) and replace it with the VCO coil supplied in the Mod Kit.
6. Remove C75 (47pF) from the radio and replace with 120pF cap supplied in the Kit.
7. Connect the center of Coax #1 to pin 22 of the D2824 Chip.

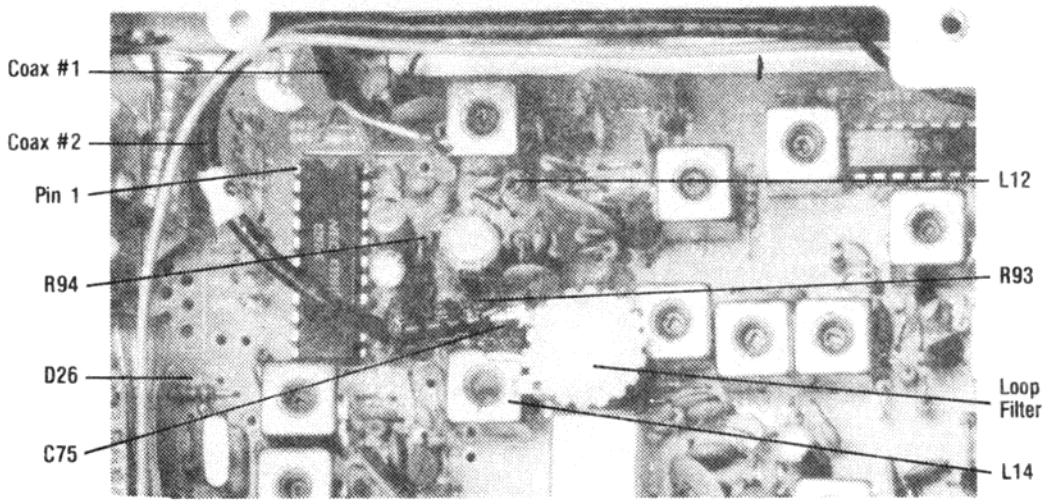

Fig. A1 — Uniden D2824 Chassis Parts Location

8. Connect the center of Coax #2 to TP-2 (JCT of R93 & R94).
9. Loop Filter Installation:
   Locate the 10K trimpot and 10uf capacitor supplied with the 400. Solder the wiper of the trimpot to ground. Install the 10uf capacitor between one end of the trimpot and TP-2. Observe polarity; the negative (-) of the capacitor must connect to the trimpot. Keep leads as short as possible.
10. Connect the black wire to **radio ground foil** near the power supply or modulator section.
11. Connect both coax shields to ground.
12. Connect the red wire to the on/off voume control for power.
13. To comply with FCC regulations remove TR40.

This completes the installation procedure. Before operation, the 400 must be programmed and the radio must be realigned. Turn to the programming section and proceed.

PROGRAMMING INSTRUCTIONS
Uniden D2824 Chassis

CODE #	PLL CHIP #	REFERENCE CRYSTAL FREQ.	NINE-POLE ROCKER SWITCH									DIRECTION
			1	2	3	4	5	6	7	8	9	
16	D2824	10.240	F	F	O	O	F	O	O	O	F	Normal

ALIGNMENT PROCEDURE #8

This alignment procedure applies to the Uniden D2824 chassis.

Alignment: Align L13, L14 and the loop filter as per the general alignment procedure described on page 27.

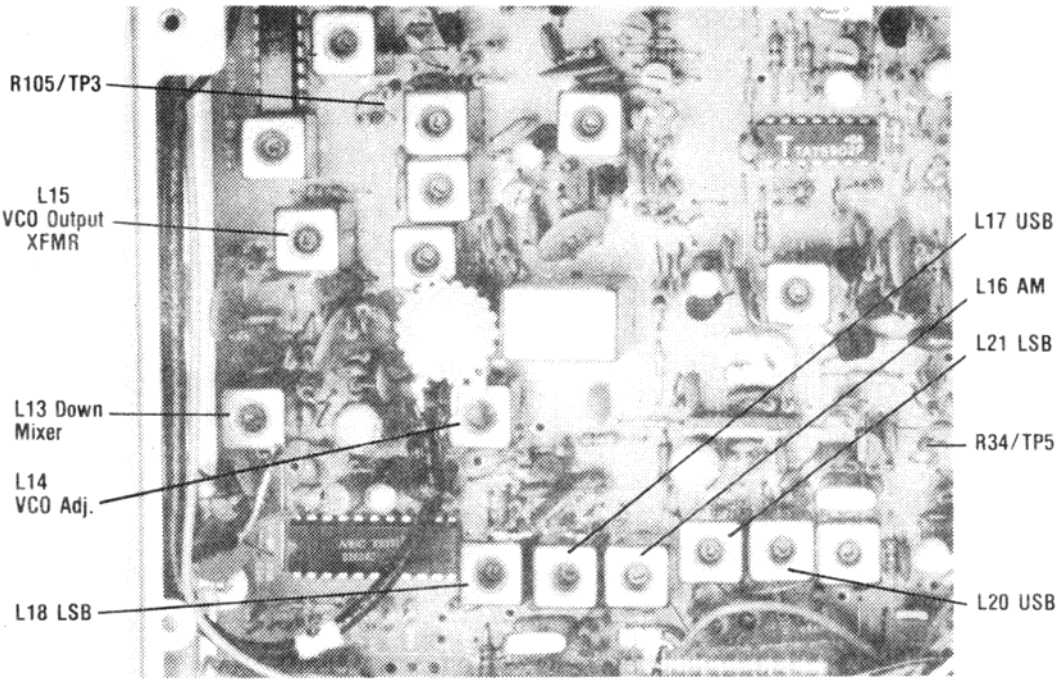

Fig. A2 — D2824 Chassis Alignment

NOTE: The following alignment is not normally necessary.

Offset alignment:

Radio Control Settings:
Clarifier - centered Mode - LSB DS - 400 - 27.155

1. Connect a frequency counter to TP-3.
2. Adjust L-18 for a reading of 16.4575 MHz ± 40 Hz.
3. Set mode switch to USB and align L17 for 16.4625 MHz ± 40 Hz.
4. Set the mode switch to AM and align L16 for 16.460 MHz ± 40 Hz.
5. Set the mode switch to USB. Connect the frequency counter to TP-5/R34.
6. Align L20 for 10.6925 MHz ± 10 Hz.
7. Set the mode switch to LSB and align L21 for 10.6975 MHz ± 10 Hz.

This completes the alignment procedure. The receiver is ready for operation.